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## Volume 33 - Issue 1 - Friday, September 5, 1997

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# THE ROSE THORN

Vol. 33, No. 1

Rose-Hulman Institute of Technology

Friday, Sept 5, 1997

## Solar Phantom team places fifth in Sunrayce

Members of Rose-Hulman's Solar Phantom IV race team surprised the competition, Sunrayce '97 organizers, and themselves with a fifth-place finish out of 36 teams in this summer's cross country solar car adventure.

The performance was the best recorded by a Midwest college, all the Big Ten: University of Michigan, Illinois, Minnesota, Ohio State and Purdue, and Ivy League: Yale and Pennsylvania teams. The Phantom's performance showcased the team's engineering skills with no major mechanical breakdowns during the 10-day, 1,240-mile race from Indianapolis to Colorado Springs, CO.

"Our goal was to be in the top ten. Fifth place was icing on the cake," said Team Leader Eric Ward, a member of Rose-Hulman's 1995 team that finished 14th across a similar Sunrayce route. "It was good to look up at the standings and see us in between Texas A&M and two-time Sunrayce champions Michigan. We're running with the big boys now . . . We proved that we can develop a dependable, competitive, and safe car. Other teams took notice of us."

The Solar Phantom made its presence felt on the first day of competition, improving nine spots, 17th to eighth place, over a 65-mile route from the Indianapolis Motor Speedway to a homecoming on the Rose-Hulman campus. The team was a model of consistency thereafter, never finishing worse than 10th on any day of the race. That wasn't the case for other Sunrayce competitors. For instance, George Washington University, the fastest car in qualifications, experienced a series of front suspension problems and dropped out of the race on Day 6. Electrical problems hindered others.

"Our car was so reliable," stated John

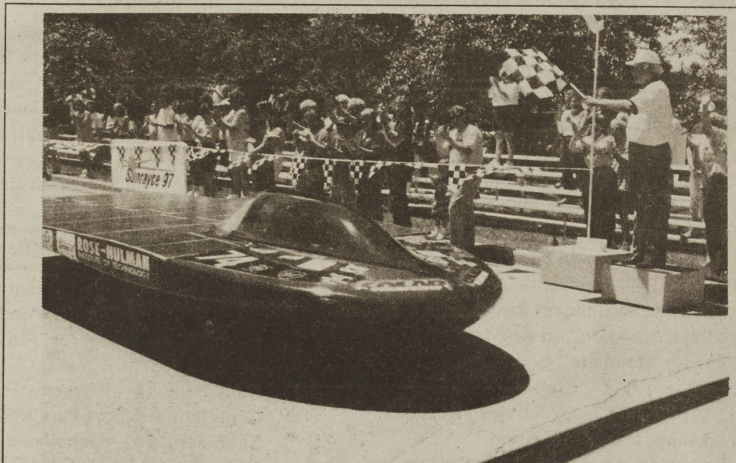
Weil, a member of the electrical engineering unit. "We knew that the car was going to be ready at the starting line each morning at 10 a.m. and would finish each afternoon." Added chief mechanical engineer Anthony Heap, "People kept waiting for us to fail . . . Consistency was the key. Everything went surprisingly smooth."

There were some anxious moments. For instance, chief electrical engineer Brad Konkell located a short circuit in the solar array, the lifeblood of any solar-powered vehicle, minutes before leaving Manhattan, KS, to start Day 6. It required an eight-minute pit stop to make repairs. The team still finished 10th for the day.

Such teamwork was saluted by Sunrayce officials and former Phantom team members. Rose-Hulman received a sportsmanship award at the post-race banquet for good deeds and fair play. "Rose-Hulman was an organized and determined team from the first day I saw them at qualifications. They looked like a 'team.' I knew they were going to be one of the top teams," said Sunrayce 97 Co-Director Tom Sheffler of General Motors Corp.

"If you wanted something fixed, you didn't find one person fixing it, four or five were there to help. This was truly a team effort," said Phantom II Team Leader Dylan Schickel (Mech. Eng./Economics, '93), who traveled with this year's team. "They ran the car to its fullest potential and stuck with their game plan during the entire race."

That strategy was formulated during more than 1,300 miles of pre-race vehicle tests, an advantage past Solar Phantom teams did not enjoy. Those tests also helped team members make one of their most important decisions: picking the right type of battery for the reserve energy pack.



The Solar Phantom team finishes fifth at Sunrayce '97 in Colorado Springs, Colorado.

The team originally planned to use a battery that could be recharged quickly and possessed a higher stack voltage, believing that it would be advantageous on cloudy or rainy days. Rain severely hampered Rose-Hulman's efforts during Sunrayce 95. The alternative was a special electric vehicle battery that needed eight to 10 hours to fully recharge.

After considerable discussion and further testing, team members selected the higher voltage batteries manufactured by Delphi Automotive Systems, specially designed for electric vehicles.

It was a decision that would reap benefits throughout Sunrayce, starting with completing 255 miles at the Last Chance Qualifier.

"The higher stack voltage allowed us to finish each leg of the race and remain

competitive," says Konkell, who helped set the team's race strategy.

Other key elements were the hub-based, 12 horsepower electric motor that helped the car's energy efficiency. The purchase of encapsulated solar cells in late 1996 allowed the solar array to be complete this past winter. A special recognition banquet is planned on campus Sept. 14 to honor the Solar Phantom team and volunteers from Sunrayce's first overnight stop.

"Hopefully, this is just the beginning of great things for the Solar Phantom project," Ward said. "We've set the table for the team to do even better in 1999. Freshmen and sophomores carried the project this spring when the seniors were at co-op assignments, worrying about graduation and finding jobs. The future is definitely in good hands."

## Cecil Lobo will be missed after 33 years of service

Professor Cecil Lobo, a professor of civil engineering at Rose-Hulman for 33 years, died May 20 in Terre Haute at age 62.

Lobo was the recipient of several teaching awards and received national recognition for his 27 years of outstanding service as faculty adviser to the Rose-Hulman student chapter of the American Society of Civil Engineers (ASCE).

"He was a dedicated, gifted teacher and adviser who made enormous contributions to the education of our students, and the development of our civil engineering program," stated Rose-Hulman President Samuel Hulbert.

Lobo joined the Rose-Hulman faculty in 1963 as an instructor in civil engineering. He was promoted to assistant professor in 1964, associate professor in 1967, and earned the rank of professor of civil engineering in 1972. He also served as acting chairman of the Department of Civil Engineering.

As the result of his guidance, the Rose-Hulman student chapter of the American Society of Civil Engineers received recognition during 17 of the past 23 years as one of the nation's best chapters. For the past 11 years, the chapter received a certificate of commendation. The chapter was designated as a Ridgeway Finalist for Chapter of the Year honors in 1989 and

1996.

Lobo received the ASCE Zone II Faculty Advisor of the Year Award in 1995. He received numerous other honors for his outstanding service to ASCE.

In 1991, he was honored by Rose-Hulman as the recipient of the Dean's Outstanding Teacher Award and received the Inland-Ryerson Outstanding Teacher Award in 1984. The Rose-Hulman Alumni Association elected him in 1991 as an Honorary Alumnus.

Lobo taught structural engineering, soil mechanics, and engineering mechanics courses. He also served as a consultant to private firms, government agencies, and charitable organizations. He was a registered professional engineer in the State of Indiana.

Lobo was a native of Mangalore, India. He earned a Ph.D. from Purdue University, a master of science degree from the University of Notre Dame, and a bachelor of engineering degree from the University of Gujarat in Ahmedabad, India.

He was elected to Tau Beta Pi, a national engineering honorary, and was a member of the American Society for Engineering Education, Sigma Xi, the American Concrete Institute, and Prestressed Concrete Institute.

Lobo is survived by his wife, Sylvia, and sons Colin and Trevor.

## Aerial Robotics team earns fifth in competition

The Aerial Robotics team combined the qualities of an aerospace engineer, computer scientist, and technician in a successful attempt to construct a computer-controlled helicopter for the 1997 Aerial Robotics Competition, conducted at Walt Disney World's Epcot Center on July 14.

Rose-Hulman's 20 member rookie team tied for fifth place out of 10 teams, placing higher than Georgia Institute of Technology and former champions, University of Texas-Arlington. Carnegie Mellon University finished first.

This was an outstanding effort by a first-year team. We had flight with several systems working. That's something many of the competitors couldn't accomplish," explained Faculty Adviser Wayne Padgett. Padgett has attended several past competitions, organized by the Association for Unmanned Vehicle Systems International and sponsored by the U.S. Department of Energy.

"These were undergraduate college students building devices that are complex research problems," Padgett said. "Every year they participate in this competition, they raise the level of what can be done with robotic vehicles."

The task for the Aerial Robotics club involved designing and constructing a flying vehicle that was capable of remotely mapping a field of randomly placed barrels. The vehicle also had to perform various image recognition tasks and be able to

retrieve a "sample disk." An additional complication was that no human control was allowed after the vehicle started.

Rose-Hulman students chose a helicopter because of its maneuverability and familiarity as a remote-controlled vehicle. It was 6 feet long, 18 inches high, and weighed approximately 20 pounds. A miniature computer on board controlled flight and communicated with a ground computer.

In flight, a global positioning system receiver assisted in locating the competition area, a simulated toxic waste dump. Then, a miniature digital camera and image processor identified the contents of barrels to the dump, paying particular attention to their hazardous material labels. Teams are allotted one hour to complete the task.

Points were awarded for each drum correctly identified, the elapsed flight time, retrieval of a sample disk from a drum, and overall success of the mission. Teams also were rewarded for design innovation, safety, and producing a research paper about the project.

Jeremy Conner and Friso Schlottau were co-leaders of Rose-Hulman's team. Other members were Brian Beaty, Ralf Brandt, Brian Degnan, Dung Duong, Luke Gilbert, Troy Harriman, Harald Hoffmann, Trevor Jones, Tim Langham, Steve Leyland, Bob Leavell, Jason Lockhard, Jason Matthison, Brian Monacelli, Justin Morey, Mike Olson, Pete Papavasiliou, Perry Peters, Chris Prince, and Ben Thompson.



**Today and Tomorrow**

- Fri., Sept. 5—Student Activities Board Show, Comedian Marty Putz, Auditorium, 8 p.m.  
 Fri., Sept. 5—Student Activities Board Concert, Blind Man's Bluff (A Cappella Rock Group), Kahn Room, 8 p.m.  
 Fri., Sept. 5—Soccer, vs. North Central College, at Anderson Univ. Tournament, 2 p.m.  
 Fri., Sept. 5—Volleyball, at Hanover Invitational, Hanover, 6 p.m.  
 Sat., Sept. 6—Soccer, vs. Baldwin-Wallace College, at Anderson Tournament, 1:30 p.m.  
 Sat., Sept. 6—Volleyball, at Hanover Invitational, Hanover, Ind., All Day  
 Sat., Sept. 6—Women's Cross Country, at Southern Indiana Classic, Evansville

**September 7-13**

- Mon., Sept. 8—ID Card Registration (Seniors), Student Affairs Office, 9 a.m. to 1 p.m.  
 Tues., Sept. 9—Rose-Hulman Bands Organizational Meeting, Band Room, 6 p.m.  
 Wed., Sept. 10—Final Date To Add A Class  
 Wed., Sept. 10—President's Administrative Council, Kahn Banquet Room, 8 a.m.  
 Wed., Sept. 10—ID Card Registration (Faculty/Staff & Family Members), Student Affairs Office, 5-7 p.m.  
 Wed., Sept. 10—Career Services Resume Workshop, PA Room, Noon  
 Wed., Sept. 10—Women's Club Coffee, Joy Hulbert's Home  
 Wed., Sept. 10—Volleyball, at University of Indianapolis, Indianapolis, 7 p.m.  
 Thur., Sept. 11—ID Card Registration (Sophomores), Student Affairs Office, 9 a.m. to 1 p.m.  
 Thur., Sept. 11—Career Services Techniques Workshop (For Electrical Engineering Majors), Kahn Room, 4:30 p.m.

- Thur., Sept. 11—Career Services Interview Workshop, Kahn Room, 6 p.m.  
 Thur., Sept. 11—Career Services Techniques Workshop (For Athletes), Kahn Room, 7:30 p.m.  
 Fri., Sept. 12—Volleyball, Rose-Hulman Invitational, Hulbert Arena, 6:30 p.m.  
 Fri., Sept. 12—Athletic Hall Of Fame Reception, Boston Connection Conference Center, 8:30-10 p.m.  
 Sat., Sept. 13—Athletic Hall Of Fame:  
 \* Induction Ceremonies, Sports & Recreation Center, 10:30 a.m.  
 \* Luncheon, Kahn Banquet Center, Noon  
 \* Football, University of the South, Phil Brown Field, 1:30 p.m.  
 \* Hall Of Fame Inductees Introduced At Halftime  
 Sat., Sept. 13—Volleyball, Rose-Hulman Invitational, Hulbert Arena, 10 a.m.  
 Sat., Sept. 13—Men's/Women's Cross Country, Great Lakes Invitational, Bird-Gibson Area, 11 a.m.  
 Sat., Sept. 13—Soccer, at Earlham College, Richmond, Noon

**September 14-20**

- Sun., Sept. 14—Solar Phantom/Sunrayce Recognition Dinner, Vonderschmitt Room, 5 p.m.  
 Sun., Sept. 14—Soccer, Millikin University, Jim Rendel Field, 1 p.m.  
 Sun., Sept. 14—Women's Tennis, Engineers Invitational, Rea Park Courts, 9 a.m.  
 Sun., Sept. 14—Panhellenic Picnic  
 Mon., Sept. 15—ID Card Registration (Juniors), Student Affairs Office, 9 a.m. to 1 p.m.  
 Mon., Sept. 15—Career Services Techniques Workshop (Mechanical Engineering Majors), Kahn Room, 4:30 p.m.  
 Mon., Sept. 15—Career Services Techniques Workshop (Electrical Engineering Majors), Kahn Room, 6 p.m.  
 Tues., Sept. 16—Institute Meeting (Discussion Of First Year Program/Foundation Coalition), E-104,

- 4:30 p.m.  
 Tues., Sept. 16—Thesis Defense, "The Development And Validation Of A Finite Element Model For The Determination Of Natural Frequencies And Mode Shapes Of A Diesel Engine Gear Cover," Phillip Stolz, B-108, 4:30 p.m.  
 Tues., Sept. 16—Career Services Techniques Workshop (Computer Science & Computer Engineering Majors), Kahn Room, 4:30 p.m.  
 Tues., Sept. 16—Career Services Resume Workshop, Kahn Room, 6:30 p.m.  
 Tues., Sept. 16—Explore Engineering Open House, GM Room, 7 p.m.  
 Tues., Sept. 16—Women's Tennis, IUPUI, Rea Park Courts, 5 p.m.  
 Wed., Sept. 17—President's Administrative Council, Kahn Banquet Room, 8 a.m.  
 Wed., Sept. 17—Career Services Resume Workshop, PA Room, Hulman Union, Noon  
 Wed., Sept. 17—Volunteer Fair, ISU Dede Plaza, 11 a.m. to 2 p.m.  
 Thur., Sept. 18—Al Schmidt Freshman Mathematics Competition, G-219/221, 7-9 p.m.  
 Thur., Sept. 18—Career Services Techniques Workshop (Civil Engineering Majors), Kahn Room, 4:30 p.m.  
 Thur., Sept. 18—Career Services Techniques Workshop (Chemical Engineering Majors), Kahn Room, 6 p.m.  
 Fri., Sept. 19—Admissions' Campus Visitation Day  
 Fri., Sept. 19—Soccer, vs. Fontbonne College, at Principia College Tournament, 3 p.m.  
 Sat., Sept. 20—Football, at Millsaps College, Jackson, Miss., 1:30 p.m.  
 Sat., Sept. 20—Soccer, vs. Principia College, Principia College Tournament, 2 p.m.  
 Sat., Sept. 20—Volleyball, at DePauw Univ. Quadrangle, Greencastle, 11 a.m.  
 Sat., Sept. 20—Men's/Women's Cross Country, at Principia College Invitational  
 Sat., Sept. 20—Women's Tennis, at Brescia College, Owensboro, Ky., 10 a.m.



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Cheese	1.95	4.80	5.90	7.00
1-item	2.30	6.30	7.40	8.50
2-item	2.65	7.10	8.30	9.50
3-item	3.20	7.90	9.20	10.50
4-item	3.50	8.70	10.10	11.50

**Additional Menu Items**  
**Sandwiches** ..... \$3.45 & 3.95  
**Bread Stix - w/Cheese** .... 1.50  
**Garlic Knots, Cinnamon**  
**Knots or Butter Knots** ... 1.60  
**Garlic Bread** ..... 1.45  
**Garlic Bread & Cheese** .. 1.95  
**Hot Wings (10 pcs.)** ..... 3.50  
**BBQ Wings (10 pcs.)** ..... 3.50  
**Full Spaghetti** ..... 2.99

**Works Items:** Pepperoni, Sausage, Mushrooms, Onions, Green Olives, and Green Peppers.

**Ingredients:** Pepperoni, Sausage, Mushrooms, Onions, Green Olives, Black Olives, Green Peppers, Pepperoncini, Jalapeno Peppers, Ham, Beef, Canadian Bacon, Fresh Bacon Pieces and Anchovies.

**SPECIAL: 2 sandwiches for \$5.90**

**Ham & Cheese** - Ham, Provolone, Mozzarella, Parmesan ..... \$3.45  
**Hoagie** - Ham, Salami, Provolone Cheese, Lettuce, Tomatoes, Onions, Spices ..... 3.45  
**Stromboli** - Pizza Sauce, Sausage, Cheese, Spices ..... 3.45  
**Barbeque Stromboli** - BBQ Sauce, Sausage, Cheese, Spices, Onions ..... 3.45  
**Pepperoli** - Pizza Sauce, Pepperoni, Cheese, Spices ..... 3.45  
**Submarine** - Pizza Sauce, Salami, Canadian Bacon, Cheese, Spices ..... 3.45  
**Gyro** - Lamb & Beef, Onions, Tomatoes, Sour Cream on Pita Bread ..... 3.45

**Roast Beef** - Roast Beef, Onions, Provolone Cheese ..... 3.95  
**Turkey Club** - Turkey Breast, Fresh Bacon Bits, Lettuce, Tomatoes, Onions & Mayo ..... 3.95  
**Meatball** - Meatballs, Spaghetti Sauce, Cheese, Spices ..... 3.95  
**Italian Beef** - Served with onion & provolone cheese on our Fresh Sub Bun ..... 3.95  
**Pork BBQ Sandwich** - Served with onion on our Fresh Sub Bun ..... 3.95  
**Beef BBQ Sandwich** - Served with onion on our Fresh Sub Bun ..... 3.95  
**Chicken BBQ Sandwich** - Served with onion on our Fresh Sub Bun ..... 3.95  
**Steak Hoagie** - Steak, onions & provolone cheese on our Fresh Sub Bun ..... 3.95  
**Ex. Veg.** - 30¢ **Ex. Cheese** - 50¢ **Ex. Meat** - \$1.00  
**Reg. Salad** ..... \$1.45 **Chef Salad** ..... \$3.50  
**Drinks** ..... 95¢ **Pitchers, Soft Drink** ..... 2.75  
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**Coming soon to an issue near you**

- Sept. 21 — Faculty/Staff Family Picnic, Deming Park  
 Sept. 26-27 — Homecoming Festivities  
 Sept. 27 — Football, University of Chicago, Phil Brown Field, 2 p.m.  
 Oct. 7 — Institute Meeting, E-104, 4:30 p.m.  
 Oct. 11 — Midterm Progress Reports, Registrar's Office, 11 a.m.  
 Oct. 17 — Cross Country, Indiana Intercollegiate, Bird-Gibson Area  
 Oct. 18 — Fine Arts Series, "The Barber Of Seville" (National Opera Company), 7:30 p.m.  
 Oct. 18 — Football, Manchester College, Phil Brown Field, 1:30 p.m.  
 Nov. 1 — Dad's Day  
 Nov. 1 — Football, Franklin College, Phil Brown Field, 1:30 p.m.  
 Nov. 8 — Fine Arts Series, "The Special Consensus," 7:30 p.m.  
 Nov. 8 — Football, Hanover College, Phil Brown Field, 1:30 p.m.  
 Nov. 15 — Cross Country, Div. III Regional, Bird-Gibson Area  
 Nov. 17 — Start Of Fall Quarter Exams  
 Nov. 20 — End Of Fall Quarter

**Submissions To Campus Events**

Events may be published in *Campus Events* by any organization or individual. Information on club meetings, lectures/speeches, and athletic events, including announcements of times and locations may be submitted to *Campus Calendar*, in care of Dale Long, associate director of communications, at Box 14 or extension 8418. More detailed articles containing plans, agendas, and specific information should be submitted to the *Rose Thorn*.

All submissions must be made by Wednesday, at noon, in order to be published in *Campus Events* in the *Rose Thorn* on Friday.



## Excellent job market for '97 Rose graduates

Job prospects for 1997 Rose-Hulman graduates are the best in several years with some majors reporting placement of all their seniors by May.

"Nearly 90% of our seniors had their career plans finalized or had been accepted to graduate school by the time they received their diploma," stated William Lindstaedt, director of career services and employer relations, "This is the best hiring climate in several years."

The average starting salary offered to new graduates continued to increase to nearly \$39,000. The highest salary accepted by a '97 graduate was \$55,000.

Among the most sought-after seniors were computer science and computer engineering majors.

"Almost every senior in those two majors were considered placed by mid-May," Lindstaedt said.

New programs and services have been implemented by Lindstaedt and his staff to prepare students to react to changing employment and recruiting trends.

"The corporate recruiting process has changed rapidly. Students have to be more aggressive and experienced. We've also expanded co-op and internship programs to give them more pre-graduate job experience," Lindstaedt explained.

Freshman are now required to attend career planning workshops during their first

quarter on campus. "They learn about the job search process, interviewing, resume writing and how to market themselves to prospective employers," Lindstaedt noted.

The number of companies interviewing on campus during the past academic year increased by 45% compared to last year. Another indication of the changing job market is the number of different companies hiring Rose-Hulman graduates. Ninety-two companies hired at least one senior last year.

The most graduates hired by a single company was seven by Sagian, Inc. Sagian is an Indianapolis-based international company specializing in the design, manufacture, and sale of automation technologies for the research and laboratory markets. Caterpillar hired six graduates, while Navistar and Andersen Consulting each hired five.

Lindstaedt said the help that alumni give is vital to providing Rose-Hulman students with more and better job opportunities.

"Our alumni network is tremendous," he emphasized.

"So often, alumni call with job leads even before those openings have been publicly announced. That's a real advantage for us," Lindstaedt said.

"Alumni are a valuable extension of our staff. We truly appreciate the support alumni provide to help our students begin their careers."

## Two reviews rank Rose

by James Tedrick  
Thorn Reporter

What kind of school is Rose-Hulman? According to several recently released guides and lists, Rose provides a good level of education for its expense, has an easy-to-deal-with administration, and still leans politically and socially on the conservative side.

Money Magazine, for the second year in a row, ranks Rose as one of the top 150 best buys in education and as the eighth best buy for an engineering school.

Chuck Howard, Dean of Admissions, states that such rankings provides name recognition for Rose, and "allows the admissions office to point to something, and gives some legitimacy."

"Even though Rose-Hulman is expensive, we do provide enough financial aid," Dean Howard explained, adding, "The students are getting a quality education."

The Princeton Review's book "The Best 311 Colleges," which is based on surveys filled out by Rose-Hulman students, features reviews of Rose's educational and social reputation. A feature of the book is its list of the top ten schools for several categories, including academic, demographics, and campus life subjects such as best radio station. Rose received numerous distinctions in the

list, including fifth placement in the "School runs like butter," which is an indicator of the administration's effectiveness. Also repeating from last year is our appearance on the "Nostalgic for Ronald Reagan" list, which indicates the political nature of the student body.

Rose makes an appearance on a new list and is dropped from a few this year. New this year is Rose's third place ranking in the "Future Rotarians and Daughters of the American Revolution," which is based upon the questions regarding drug and alcohol use, pervasiveness of religion, and the popularity of the student government. Rose has been dropped from the "Jock School" category, as well as "Students never stop studying."

Dean Howard believes that while guides such as the Princeton Review can get a student started with selection. However, he expressed that a prospective student should visit the campus to find out for themselves where he or she feels the most comfortable.

U.S. News and World Report, which has consistently ranked Rose as one of the three top engineering schools, left out the entire engineering school category this year, as well as other specialty schools, such as business and art.

## Rose receives honor for fund-raising success

Rose-Hulman received the Circle of Excellence in Educational Fund Raising Award during the 23rd annual meeting of the Council for the Advancement and Support of Education July 14 in Washington, D.C.

The award honors outstanding fund-raising programs at selective colleges, universities, and independent K-12 institutions nationwide, according to Sarah Bray, vice-president of the Council for the Advancement and Support of Education (CASE).

Rose-Hulman was selected for exemplary performance based on the judges' analysis of the data submitted to the

CASE for its annual Voluntary Support of Education survey.

An abstract of the highlights of Rose-Hulman's development program will be distributed to other institutions nationwide by CASE. The abstract will also be included in the "CASE Best Book" on educational fund-raising.

The award recognizes Rose-Hulman for the success it has gained in nearing the goal of its \$100 million Vision to be the Best fund-raising campaign.

Thus far, at least \$88 million has been donated or pledged to the campaign which is the largest in Rose-Hulman history.

## Catapult Accident

by Joel Gillespie  
Thorn Editor-in-Chief

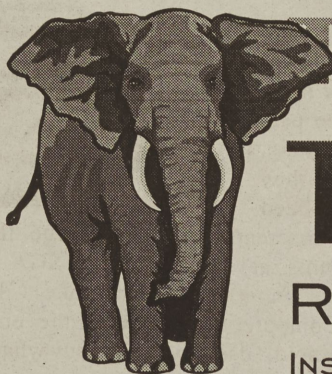
In early June, a van filled with six Operation Catapult counselors collided with a semi truck, injuring six passengers, two of which are still recuperating from their injuries and have not returned to school.

Sophomore Charissa Bolind and Junior Tim Rooney were injured the most seriously and remained in comas for several weeks. Bolind was expected to return for fall quarter classes but had not arrived at press time. Rooney is still experiencing difficulties with his memory due to injuries from the crash and is hoping to return for the winter quarter.

Junior Michelle Clark sustained a broken pelvis and is back for school this fall. Sophomore Hannah Rumpf and Nate Simon recovered quickly and were able to serve as counselors for the second session of Catapult. Tony Polloway had a broken nose and served as counselor for both sessions.

The van was returning from a counselor training session at Camp Na Wa Kwa outside Poland, Indiana, and was attempting a left hand turn onto a four-lane highway when it was struck by the semi.

Catapult was able to continue through the help of three additional female and two male counselors, who were recruited after the accident.



**The Rose  
Thorn**  
ROSE-HULMAN  
INSTITUTE OF TECHNOLOGY

## Darrell Loyless takes over as vice president

On July 1, Darrell Loyless joined the Rose-Hulman administration as the new vice-president for Development and External Affairs. He will oversee programs and staff in alumni affairs and special events, development, and public relations. Loyless began his duties July 1.

He replaces Ron Reeves, who has retired after 30 years of service to Rose-Hulman.

Loyless has served for the past nine years as vice-president for Institutional Advancement at Lyon College in Batesville, Arkansas. Loyless was responsible for the college's admissions, alumni relations, development, financial aid, and public relations programs. He coordinated the successful beginning of an \$80 million fund-raising campaign which was initiated two years ago at Lyon College.

In 1994, he was honored as the National Society of Fund-Raising Executives Fund-Raiser-of-the-Year. He has served on the national board of

directors of the Council for the Advancement and Support of Education (CASE), and he presently serves on the CASE Commission of Philanthropy.

Prior to joining the Lyon College administration, Loyless was vice president of Centenary College in Shreveport, Louisiana. He also served as associate professor and chairman of the Centenary College Department of History and Government.

"Darrell Loyless is nationally known for his leadership in private college fund raising and public relations," noted Rose-Hulman President Samuel Hulbert. "His expertise will be vital as Rose-Hulman seeks the support to ensure that our vision to be the best will be achieved," Hulbert stated.

Loyless earned a Ph.D. in government from American University, and a master of science degree in government from Texas A&M University. He received a bachelor degree of government and history from the University of Texas.

The Admissions Office is looking for students to serve as overnight hosts for prospective students. If interested, please stop by the Admissions Office in the front of Moench Hall or call x8213.



# Administering to the mind of Rose-Hulman



**Bob Voros**

*Thorn*  
Columnist

Sure, I did it for the fame, for the throngs of adoring fans continually wanting to know what's on my mind.

What better reason is there for joining the *Rose Thorn*? It's worth the hours of backbreaking thought-intensive work every week to see that your words are influencing the minds that make this school so great.

The *Thorn* offers an opportunity to the Rose-Hulman student body that no other extracurricular activity can: the ability to change minds. Students may join organizations such as the Student Gov-

ernment Association, SGA, or the Linux Club to feel involved in student body life.

This involvement is, however, limited. Yes, the SGA can refuse funding to clubs and may censor Web pages, but in their powers rarely reach beyond the realm of a student's extracurricular existence.

The Linux Club evolves its power through their infiltration of the personnel of Waters. True, they haven't utilized their ability to create and delete accounts at whim (as far as we know), but they can. Computers can be lived without, despite popular belief.

While these organizations have powers which may seem extraordinary they are nothing compared to the influence of the *Rose Thorn*.

thoughts expressed in the *Thorn*. If you crossed the Linux Club they may take pity on you if you extolled the virtues of their organization in a news report.

and let your thoughts influence the minds of others. As a reporter you can educate the campus as to the latest decisions and actions happening at Rose.

Of course, as in all organizations, these report to a higher, much more influential, power: the faculty and staff. These persons make the decisions that effect your entire existence at Rose. They can also be influenced by your words when they read

There are many jobs to be done for the *Thorn* and many people needed to do them. The work is usually easy (contrary to my previous statement), and you and the rest of the Institute will see the product you have worked for every Friday.

If that isn't enough, we also have free pizza on Wednesdays and a nice new couch.

## Propaganda Blitz



It is true that Michael Dean, SGA President, may make a decision that affects the entire student body, but what sways that decision could be the *Thorn*. While all this may sound spectacular, it is amazingly easy to access this power. Become an opinion writer for the *Thorn*

*Bob Voros (ME '98) asks all those interested to join Propaganda Blitz '97 as soon as possible! Come for the Pizza, stay for the couch!*

## The Rose Thorn

5500 Wabash Avenue  
Terre Haute, Indiana 47803-3999  
Phone: (812) 877-8255  
Fax: (812) 877-8362



*"Working to keep the Rose-Hulman community informed by providing an accurate and dependable source for news and information."*

The *Rose Thorn* is published on Fridays at Rose-Hulman Institute of Technology.

### Editorial and Administrative Staff:

Editor-in-Chief	Joel Gillespie
News Editors	Beth Bateman and Kevin Kaminski
Features Editor	Caleb Coburn
Asst. Features Editor	Libby Henthorn
Sports Editor	Peter Anderson
Campus Editor	Matt Walter
Photo Editor	John Straigis
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Cartoonist	Bob Voros
Advertising	Matt Gumbel
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The *Rose Thorn* welcomes letters and comments from its readers. We request that all letters to the editor be less than 300 words long. The editors reserve the right to edit letters for grammar, clarity and length (if over 300 words). All letters to the editor must contain the writer's signature, class year and phone number. All submissions will be confirmed before publication. Letters may be sent by electronic mail to [Thorn@Rose-Hulman.Edu](mailto:Thorn@Rose-Hulman.Edu), but still must contain the writer's phone number for confirmation. For prompt publication, letters should be typewritten or printed by computer. All letters for an issue of the *Thorn* must be received before noon on the Tuesday prior to publication.

We would like to remind our readers that the views expressed in the *Thorn* do not necessarily represent the opinions of anyone other than the original author.

Web Page: <http://www.rose-hulman.edu/Users/groups/Thorn/HTML/index.html>

## Rose-Hulman Horoscopes



**Aries (Mar 21-Apr 19)**

Seek romance with your best of friends.

Small, furry animals befriend you for some reason. Many lives will be threatened when Venus, Earth, and the Moon are in the sky. Do not delay in selling any body fluids.



**Libra (Sept 23-Oct 23)**

Do not burn down your house or apartment this week, as the moon descends through Mars. Planning a small getaway will take time. Walking around is good.



**Capricorn (Dec 22-Jan 19)**

Robbing an armored car will not be beneficial, nor very good. It's time to move once again, after your boss kicks you out of work. Mercury's orbit indicates for you to be very wary of small toolsheds and whatnot.



**Virgo (Aug 23-Sept 22)**

It's your time of year! Don't drop the phone on your computer. The position of the Big Dipper points North at times. Try getting a facelift to improve advances by your boss.



**Pisces (Feb 19-Mar 20)**

Lies, deceit, and murder are a few words. So are: rambunctious, totalitarian, fluff, and toner. Ezekiel is a name.



**Taurus (Apr 20-May 20)**

Accept the fact that Kennedy was shot. He's dead, get over it.



**Scorpio (Oct 24-Nov 21)**

The Man is out to put you down. Don't put the smack down until the armor has begun its rusting. Please disregard everything next Tuesday.



**Cancer (Jun 22-Jul 22)**

Do you have a surplus of Valium? With your next week, you're going to need it. Pluto is very far from Earth, as well as Uranus.



**Sagittarius (Nov 22-Dec 21)**

Co-dependency isn't such a bad option, especially with a Pisces. Tomorrow, the sun may rise, but hopefully not on your grave. Time will tell.



**Gemini (May 21-Jun 21)**

Fruits, vegetables, and other assorted roots are edible, but are not necessarily good with milk. Concerns for your miserable life are not necessary, but are indeed valid.



**Aquarius (Jan 20-Feb 18)**

Today, you see what is out there. No, you can't be a Cancer. You're an Aquarius. Okay?



**Leo (Jul 23-Aug 22)**

Following your own advice may seem to be the right thing, but since you won't listen to me, what does it matter? Think this: "me, me, me, and myself."



# Kent's Handy Survival Guide for Incoming Frosh



**Kent Bye**

Thorn Columnist

and concentrate on establishing your new college life and education. There is no other time in your life that you'll have as many opportunities as you have right now in college.

It is essential that you are able to embrace change because you'll go through many changes throughout your life at college. It is a completely different ball game, and you have to be able to adapt to it. You'll change your perspective on life, develop different emotional aspects, determine your career path, and face many distractions along the way.

Distractions are good if you learn to utilize them. They can relieve stress and foster social interaction. They can also prevent you from completing any type of school work.

The time when distractions can really hurt you is when you deny your procrastination habits. Procrastination is good if you admit that you'll eventually do it, but you end up wasting a lot of time if you try to avoid it or don't control it. If you plan to procrastinate by doing activities that provide some sort of outlet, then

you'll actually use procrastination as a tool.

Just like anything else, extremes are bad. It is bad to always procrastinate because you'll lose a lot of sleep and cause a lot of stress. It can also be bad to never procrastinate because you'll miss out on a lot of social opportunities. It is bad to never do your homework because you'll fail out, but it is also equally bad to always be studying. You have to find the happy medium.

You shouldn't do your homework for the sake of getting it done for your grade, but instead do it for the sake of learning the material.

Homework assignments are learning opportunities and not grade boosters. You should try and do all of your homework until the first test. After that you should determine if you can learn the material from the lectures or from partially completing your homework assignments. Classes are about learning, not about passing.

College is great because you're an individual, free to do whatever pleases you. It is the time to be yourself

instead of trying to be the person that other people want. It is the time to explore who you really are. It may be in our nature to feel accepted and to feel like we belong, but remember to keep your individuality close to heart. Don't be afraid to go off and do your own thing.

Being able to be yourself is a great feeling, and it is something that many of us smart "nerds" and "dorks" really couldn't do in high school. But here at Rose, people actually respect knowledge. They praise you for getting good grades instead of chastising you for being smart.

For me, college has so far been the best years of my life because I've had the chance to be myself and I've also gone through a lot of positive changes. When I reflect on my past three years of college, I realize that the most drastic change occurred during my freshman year.

When I was a freshman I needed structure and to know what the expectations were. All throughout high school we've been trained to listen to authority and do

what our teachers say. We're used to regurgitating information, but college is more about asking questions rather than spitting back answers. Some tests will be very structured, but others will be sink-or-swim tests, determining whether or not you really know the material. In general, you'll find that there are no longer right-or-wrong solutions to your problems, but there are many better-or-worse solutions.

There are many developmental changes that occur throughout college, and because of this, I feel matured, experienced, and even old as I enter my senior year. I know the ropes of Rose-Hulman as well as many of the survival tactics. After each completed year, I see the world through different eyes not because of what I've learned in the classroom, but because of what I've learned about life outside the lectures. In conclusion, I'd like to wish you all the luck with your career here at Rose-Hulman, and also, don't forget to have fun.



## Blind Man's Bluff

8:00 p.m.

Kahn Room of the Hulman Memorial Union  
Saturday, September 6

\* Free Admission \*

Sponsored by the Student Activities Office

## Write for the Thorn!!!

You won't regret it.  
Don't end up like this  
guy...



### Wanted:

News reporters, opinion writers,  
features writers, sports reporters,  
humorists, photographers, artists,  
lackeys, and cartoonists.



Meetings in O101  
Wednesdays at 6:00 pm  
Free Pizza!!!

## Art and Shelia's Barber and Styling

1919 Maple Avenue, Terre Haute, Indiana  
Open 6 Days a Week 8 a.m. to 5 p.m.  
Closed Sunday and Holidays

**HAIR CUTS \$3.00**



# Rose-Hulman enters last season with ICAC

by Peter Anderson  
Sports Editor

Rose-Hulman is participating in athletics as a member of the ICAC for the last time this year.

The Southern Collegiate Athletic Conference unanimously voted to admit both Rose-Hulman and ICAC rival DePauw as members of the SCAC, starting in the 1998-99 school year.

"We are thrilled to be joining this conference," President Sam Hulbert said. "We feel that the schools in this league reflect the kind of institutions that Rose-Hulman wants to be associated with, both academically and in their philosophies toward NCAA Division III, non-scholarship athletics."

Current members of the SCAC are Centre College (Danville, Ky.), Hendrix College (Conway, Ark.), Millsaps College (Jackson, Miss.), Oglethorpe University (Atlanta, Ga.), Rhodes College (Memphis, Tenn.), University of the South (Sewanee, Tenn.), Southwestern University (Georgetown, Tx.) and Trinity University (San Antonio, Tx.).

The future of the ICAC caused Rose-Hulman to consider seeking a new athletic conference. DePauw had already decided to apply for membership in the SCAC, and Wabash College was also considering their conference options.

"With the loss of DePauw from the ICAC and the potential loss of Wabash, we're not looking at the same conference we joined," athletic director Scott Duncan said. "We want to be associated with schools that are like us academically. Because the schools in the SCAC share a similar view of the role of athletics in higher education, our student-athletes will have the opportunity to succeed in this

league. With that philosophy in mind, I see a move to the SCAC as a decision that's right for Rose-Hulman."

Rose-Hulman competed in the SCAC - then known as the College Athletic Conference - from 1975 to 1988, when they joined the ICAC. Current SCAC members Centre College, Rhodes College and University of the South were also members of the College Athletic Conference at that time.

Rose-Hulman is currently competing with some of the teams from their new conference, and they plan to maintain the rivalries they have formed with current ICAC members.

"We've developed some outstanding rivalries," Duncan said. "We will do everything we can to continue those rivalries. We'll also be renewing some old rivalries and establishing some new ones in the SCAC."

## Southern Collegiate Athletic Conference

Centre College (Danville, Ky.)  
Hendrix College (Conway, Ark.)  
Millsaps College (Jackson, Miss.)  
Oglethorpe College (Atlanta, Ga.)  
Rhodes College (Memphis, Tenn.)  
U. of the South (Sewanee, Tenn.)  
Southwestern U. (Georgetown, Tx.)  
Trinity University (San Antonio, Tx.)

## Sports Briefs

### Tennis honors Rose makes the grade in gender equity

The Intercollegiate Tennis Association (ITA) selected the Rose-Hulman men's tennis team as one of thirteen NCAA Division III teams to be named an All-Academic team. The Engineers received the honor for the second consecutive year.

To qualify for the honor, the cumulative GPA of all team members who competed in one or more matches must be 3.2 or better. The Engineers team GPA was 3.32.

Seniors Jordan Barr, Ryo Fuchinoue and Jeff Nord received Scholar Athlete All-American awards from the ITA. Individuals must be a junior and senior and maintain a GPA of 3.5 or better to receive the award.

The Women's Sports Foundation celebrated the 25th anniversary of Title IX by issuing a report card on gender equity in athletics at 767 NCAA institutions. Rose-Hulman was the only school in Indiana to receive an "A" on the report.

In evaluating gender equity, male-female enrollment and athletic participation, scholarship allocations, recruitment spending and operating expenditures were considered.

"That's exciting to us," athletic director Scott Duncan said in a June 23 article in the *Indianapolis Star/News*. "We've put a lot of effort, thought and time into this,

and it is our intention to have good athletics for all students. We don't care which gender they are."

"We believe athletics contribute to the educational experience in ways the classroom cannot," Duncan continued in the same article. "The only scary part was starting from scratch and fears we would not have enough women to field a team. So three years ago, we came up with a plan and for the most part it's gone real well."

Indiana State received a B- and ICAC members Anderson, Franklin and Hanover all received a C+.

## Sports Calendar

Sept. 5-6 - Soccer at Anderson University Tournament  
Sept. 5-6 - Volleyball at Hanover Invitational  
Sept. 6 - Women's Cross Country - at Southern Indiana Classic  
Sept. 6 - Women's Tennis at Knox/St. Ambrose  
Sept. 7 - Women's Tennis at Illinois-Springfield  
Sept. 10 - Volleyball at University of Indianapolis  
Sept. 12 - Women's Tennis vs. Southern Indiana  
Sept. 12-13 - Volleyball at Rose-Hulman Invitational  
Sept. 13 - Football vs. University of the South  
Sept. 13 - Soccer at Earlham College  
Sept. 13 - Cross Country at Hanover Invitational  
Sept. 14 - Soccer vs. Millikin University  
Sept. 14 - Women's Tennis at Engineers' Invitational  
Sept. 16 - Women's Tennis vs. IUPUI  
Sept. 18 - Women's Tennis at Olney CC  
Sept. 19-20 - Soccer at Principia College Tournament  
Sept. 20 - Football at Millsaps College  
Sept. 20 - Cross Country at Principia Invitational  
Sept. 20 - Volleyball at DePauw Quadrangular  
Sept. 20 - Women's Tennis at Brescia

## Classified Advertisements

### ANNOUNCEMENTS

Get away from the hectic start of a new semester by CAMPING OVERNIGHT with us at beautiful McCormick's Creek State Park. We'll leave Friday, Sept. 5 at 5:00 p.m. and return Saturday, Sept. 6 at 5:00 p.m. Please make reservations by Thursday Sept. 4. Call or come by the UNITED MINISTRIES CENTER, 321 N. 7th St., 232-0186 to sign up.

YES, THERE ARE FUN THINGS TO DO IN TERRE HAUTE! We'll find out what they are Saturday Sept. 13, 2:00-5:00 p.m. Go with us! UNITED MINISTRIES CENTER, 321 N. 7th St., 232-0186. Call or come by to sign up.

Join us for CELEBRATION:

WORSHIP(5:00 p.m.) & SUPPER (6:00 p.m.) Thursday, Sept. 18, to feed the spirit with creative, student-led worship and feed the body with a home-cooked meal. Come to either or both! Make reservations for supper by Wed., Sept. 17 UNITED MINISTRIES CENTER, 321 N. 7th St., 232-0186.

JOY MAKERS (Clown Ministry) REHEARSALS each Thursday at 6:00 p.m. Students and community welcome. Clowns perform in churches and at community events throughout the school year. UNITED MINISTRIES CENTER, 321 N. 7th St., 232-0186.

The ALL ABOUT LIFE discussion group is real talk about real life.

Students choose the topics. Join us every Wednesday at 7:00 p.m. UNITED MINISTRIES CENTER, 321 N. 7th St. Begins Sept. 3.

Our WORSHIP PLANNING TEAM meets Wednesday at 5:00 p.m., beginning Sept. 3, to plan our monthly creative student-led worship service. We need musicians, readers, actors, writers, pray-ers, and more! Come and be part of this group! UNITED MINISTRIES CENTER, 321 N. 7th St.

QUESTIONS OF FAITH & LIFE is an in-depth faith discussion for upper-class and graduate students. Join us on Tuesdays at 5:00 p.m. at the UNITED MINISTRIES CENTER, 321 N. 7th St.,

beginning Tuesday, Sept. 2.

### FOR RENT

Efficiency for rent. \$265/month. Very nice; all utilities included. Call Sharp Flats LLC 877-1146.

### FOR SALE

For Sale: 1989 Ford Escort. New tires, new battery. PS, PB, Auto., Air. Asking \$1200. Inquire with Helen in the Union Building.

### HELP WANTED

Help Wanted - Part time, flexible hours, ground maintenance for developing subdivision in Clay County. Experience with heavy machinery helpful. Competitive hourly wages. (812) 448-3238 eve.

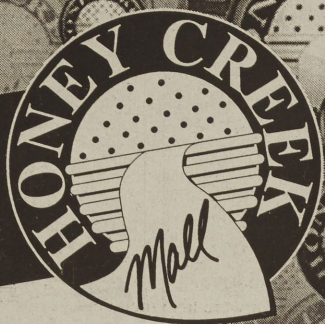
## Math and Physics got you down?

## What about that Journalism major?

Hey thrill-seekers! Join the *Rose Thorn* every Wednesday at 6:00 PM in O-101 for Pizza, discussion, and review of the weeks paper. We will have free pizza and propaganda for all attending.



## College Day September 10th



*It's so easy to shop,  
save and win!*

Prizes and fun for college students  
on your special day at the Mall!

### Discounts

- College students—on September 10, bring your picture ID or proof of registration to the Mall Information Desk and receive a list of stores which will offer you discounts on that day only.

### Radio Fun

- Don't miss the Mix FM 100.7 live remote from 5:30 to 7:30 p.m. in Center Court.

### "Friends - The Game Show"

- Beginning at 7 p.m., the first 300 students to register for the game show will receive a cooler stick (soft-sided cooler that holds three cans vertically).
- The show begins at 7:30 p.m. in Center Court. This trivia game show, based on the TV sitcom "Friends," involves four rounds with four contestants in each round. The final round will be the winners from each of the first four rounds competing for the Grand Prize, a Spring Break Vacation!\*
- Between rounds, prizes will be awarded to audience members in a "Let's Make a Deal" fashion, so be sure to bring lots of unique trinkets with you to qualify (keychains, bobby pins, pencils, chapstick, etc.)



\* Up to \$1,500. Winner must have positive proof of enrollment. Prize must be used during Spring Break 1998.

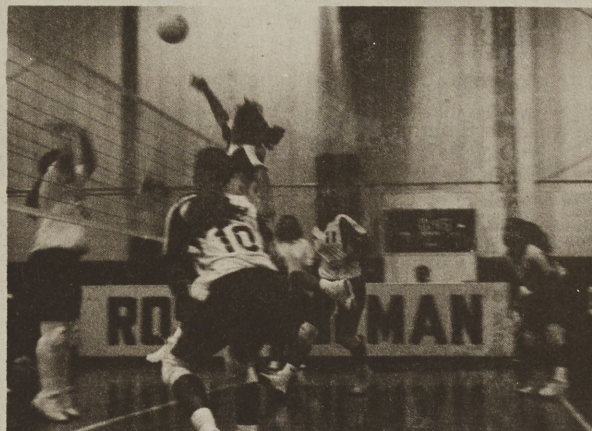
**IT MUST BE HONEY CREEK MALL!**

## Homecoming Queen Contest

Entry forms and rules available at the switchboard  
or by calling Paul Drury at 877-4440.

Deadline: September 16, 1997

## Volleyball squad opens second season at Hanover



The Engineers volleyball team in action.

by Peter Anderson  
Sports Editor

The Rose-Hulman volleyball team opens its second season this weekend at the Hanover Invitational. The Engineers hope to improve on their 3-15 mark from their inaugural season.

Eight teams will participate in the tournament, divided into two pools. The Engineers are in Pool B with DePauw, Ohio Wesleyan and Olivet. Pool A consists of Alma, Earlham, Hanover and St. Mary's. After both pools complete round-robin play, each team will play a fourth game depending on how they placed in their pool. The winners of Pool A and Pool B will compete for the tournament title.

The following weekend will be the first annual Rose-Hulman Volleyball Invitational. The format will be the same as the Hanover Invitational, with Rose-Hulman, Lincoln Christian College, Indiana University-South-east and Wilmington in Pool A and Hanover, University of Indianapolis, Robert Morris College and Marian College in Pool B.

### 1997 Rose-Hulman Volleyball Schedule

S5	at Hanover Invitational
S6	at Hanover Invitational
S10	at Univ. of Indianapolis
S12	Rose-Hulman Invitational
S13	Rose-Hulman Invitational
S20	at DePauw Quadrangular
S23	St. Joseph's College
S25	at Oakland City Univ.
S27	Earlham College
S30	DePauw University*
O2	at Anderson University*
O3	Oakland City Univ.
O10	at Manchester College*
O15	Franklin College*
O18	Rose-Hulman Tri-Match
O20	St. Mary's College
O24	at Elmhurst College
O25	at North Park Tri-Match
O29	at Brescia College
N1	Spalding College
N7	ICAC Tournament
N8	ICAC Tournament

\* ICAC match

## Soccer team loses opener

by Joel Gillespie  
Editor-in-Chief

Brent Burns of Grace College scored two quick goals midway through the first half of Tuesday's season opener, and the Rose soccer team couldn't recover on their way to a 2-1 defeat.

Three starters spent the game on the bench as a result of suspensions levied during last year's season finale against Anderson.

Junior forward Mike Schreifels scored the Engineers' lone goal on an assist from freshman Kyle Kindle in the second half.

Rose is looking to bounce back from a rebuilding year in 1996, when the Engineers went 5-11-1 and finished lower than second in the ICAC for the first time in four seasons. Senior Bo Fowler led the team in scoring with eight goals last season and returns to anchor the defense and mid-field.

Seniors Kelly Ojala and Andy Zehnder, as well as

Schreifels, also packed scoring punch for Rose last season and will be called upon to step up this year. Also key for the Engineers will be returning midfielder Ben O'Day and defender Neil Kaszubski.

Rose has the luxury of two experienced goaltenders in junior Matt Toppin and senior Cory Willis. Toppin was the starter in net last season for the Engineers and boasted a 2.25 goals-against average. Willis was an all-conference selection three years ago, and returned to start the match against Grace.

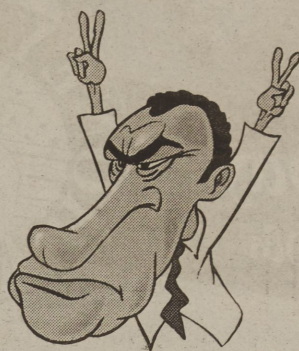
Rose opens the season with four consecutive road matches, two of which occur this weekend at the Anderson tournament. The Engineers tangle with Baldwin-Wallace today and take on North Central College tomorrow at 1:30.

The Engineers' home opener will be Sunday, September 13, against Millikin.



## Top 10 Things Overheard from Frosh on Move-In Day

- 10) "Graph Comm is easy, right?"
- 9) "I have to know: Are you pro- or con-Linux?"
- 8) "Daddy thought paying for all four years in advance was the best idea. Does ARA serve brie?"
- 7) "I heard that it's all downhill after freshman year."
- 6) "Wow, you mean they just give these great newspapers away?"
- 5) "What's that smell?"
- 4) "Maybe I'll stop by later, but first I have to take a dip in the lake."
- 3) "I don't care how much I make after graduation, I'm here because I love engineering."
- 2) "Nobody'll care if I just cut across the grass."
- 1) "Gang showers rule!"



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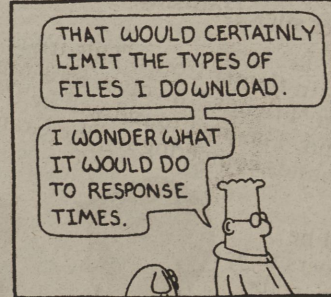
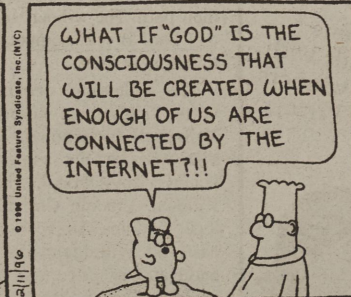
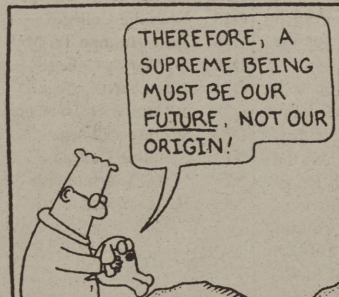
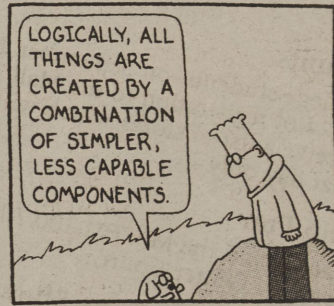
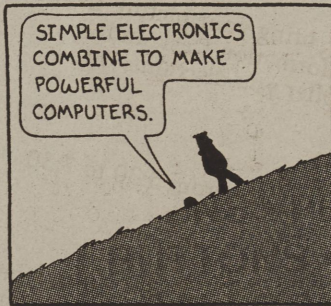
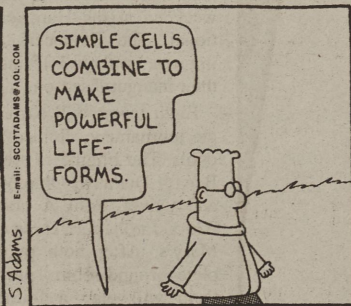
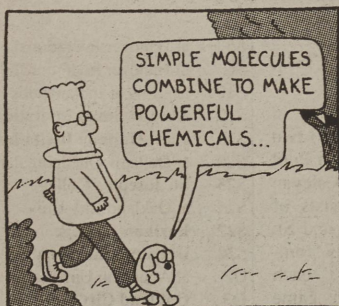
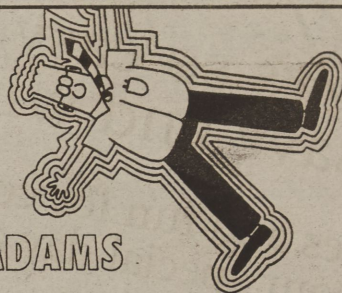
What happens to  
your sense of  
humor at *Thorn*  
Time.  
Brought to you by  
Dick.



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